

ABSTRACT OF THE DISCLOSURE

A double-acting or lift and force pump for ejecting a product from a container, with a housing in which a piston with an axial bore is axially slidable and sealed by a first housing portion, with a hollow piston rod which extends the axial bore of the piston and is slidable in an opening of a closing cap of the housing and container, wherein the hollow piston rod has at its free end a tightly fastened actuating head, wherein, when the actuating head is actuated, the piston builds up a pressure against the force of a restoring spring in a pressure chamber of the housing, wherein an outlet duct connected to the bore extends through the actuating head and through a check valve up to an ejection opening for the product, and with at least one opening in a second housing portion between the first housing portion and the closing cap. The piston in the non-actuated state thereof under the restoring spring force leaves a passage between the pressure chamber and the at least one opening in the second housing portion, wherein a section of the outlet duct adjacent the check valve has between two cup-shaped sleeves of the actuating head, which are laterally tightly placed against each other, a groove formed on the outer side of the inner sleeve, wherein the groove is covered by the outer

sleeve and extends up to an expansion chamber formed in front of the outlet opening formed in the bottom of the outer sleeve, and wherein a germ-killing and bacteria-killing medium is arranged in the expansion chamber, wherein the medium permits flow of the liquid to the outlet opening, wherein the dispensing stroke volume of the piston corresponds to the volume of the drop of the liquid, and wherein the width of the outlet opening prevents a spraying effect.